

February, 2019

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Report of the Secretary General

Message from Juan Carmelo Gómez-Fernández

Dear biophysicists,

Once more we are publishing an issue of IUPAB News. In this issue 70, we are including announcements of events and reports on courses and Meetings held recently. In addition we include some news of interest for our community.

This is also a good moment to remember the different events that have been funded by IUPAB.

During the second semester of 2018 we have funded the following events:

- The 11th K.H.Kuo Summer School of Electron Microscopy & Crystallography, Hangzhou, China, August 24-29, 2018.
- Regional Biophysics School - Mechanobiology, Kotor, Montenegro, 6-8 October, 2018.
- Protein-Protein and Protein-Membrane Interaction: Experimental and Theoretical Approaches, POSLATAM. October 22-26, 2018, Varadero, Cuba.

In the same way we are funding the following events to be held during the first semester of 2019:

- XXIII International School of Pure and Applied Biophysics, Venice (Italy), 4-8 February 2018.
- Biophysics and Structural Biology at Synchrotrons. 17-24 January 2019, Cape Town. Joint Meeting of IUPAB Task Forces on Structural Biology and Education and Capacity Building.

The IUPAB Council has just approved the funding of the following events for the second semester of 2019:

- MRI of Obesity and Metabolic



**Juan Carmelo Gómez-Fernández ,
IUPAB Secretary General**

Disorders. Singapore, 21-24 July, 2019.

- XII POSLATAM COURSE (Latin American Postgraduate Program of Biophysics). Lima in Peru between July 18 and 21, 2019.
- IV Meeting of Young Biophysicists (IV Encuentro de Jóvenes Biofísicos). San Luis, Argentina (venue: National University of San Luis).
- EBSA, Pre-Congress Workshop. 17-20 July, 2019. El Escorial, Madrid, Spain.

It should be also remembered that IUPAB is launching a new initiative, **Focused Meetings**. This new form of events will be funded by IUPAB in years in which we do not hold our Congress. The first one will take place in 2021 and deadline for application will be 30th of April, 2019. Extensive information can be found in this issue.

We want to stress that this bulletin may include collaborations from any Adhering Body, Society or individual. Our intention is to publish 3 issues per year and to accomplish this objective we need the collaboration of everybody, which could contribute articles and also reports about their

activities. Note that IUPAB does not count with dedicated journalist or any other professional help, as it is the case of other organizations.

I want to emphasize also that we need the collaboration of Adhering Bodies and Societies to disseminate this bulletin to all biophysicists. We make a call to Presidents or other persons with responsibility in Adhering Bodies and Societies to distribute IUPAB News to members.

Nevertheless we have put forward the initiative for individual biophysicists of

registering as Members of the Biophysical Community. This service is totally free and will allow to those enlisted to receive direct communications from IUPAB, such as IUPAB Newsletters, IUPAB News and other announcements.

We want to thank to our contributors to this issue and I want to emphasize the great job done by the Assistant to the Secretary General, Dr. Alessio Ausili.

We wish to all of you a very productive and biophysical 2019.

a country which is represented in IUPAB. It will be preferred to have co-organizers from two or more countries. IUPAB will provide partial financial support.

These meetings are supposed to bring together researchers interested in a given topic, but an added value will be that participants will come from different disciplines. Topics must be timely and dealing with cutting-edge science, covering 3-4 days and of clear relevance for Biophysics. A gender and geographical balance will be required when considering the list of speakers. Regular annual Meetings of Societies will not be funded.

IUPAB must appear as the main and major sponsor of the Meeting and the sponsorship must be clearly advertised in a very prominent way in all printed and electronic material (website, flyers, etc). The name of the Meeting must be "IUPAB Focused Meeting on..."

Attendance to these Meetings must be open to participants from all countries, and with special encouragement to admit participants from countries where biophysics is emerging or from developing countries.

A bid to organize these meetings must provide the following details in the application:

- Title, dates and location. The Focused Meeting should take place in a country with an IUPAB Adhering Body. The dates of the Focused Meeting should not overlap with other IUPAB events, and should not take place within a year in which an IUPAB triennial Congress will be held.
- A brief description of meeting's topic and themes, the opportunity and

Introducing IUPAB Focused Meetings

by Juan Carmelo Gómez-Fernández

IUPAB Secretary General

The Executive Committee has proposed and the Council has approved to hold IUPAB Meetings on specific topics in years in which we do not have the main triennial Congress. These Focused Meetings must be IUPAB Meetings and not to be confused with annual Meeting organized by national societies. Promoting this activity IUPAB wants to increase its visibility, holding again

activity every year, in addition to funding workshops and courses as we do now.

IUPAB Council has agreed to sponsor one Focused Meeting in years in which we do not hold our triennial Congress. The first occasion in which one of these Meetings is to be organized will be 2021. The organization of these Meetings should be carried out within



importance of the topic, and the adequacy of the location should be emphasized.

- The proposed meeting dates and number of anticipated attendees should be given.

- Focused Meetings should normally have 100-300 participants. Particular attention should be paid to participation of young scientists (Ph.D. students and post-doctoral fellows).

- Scientific program. A preliminary programme should be submitted with the application. The programme should be diverse (including lectures, open discussions, poster sessions), and it should be developed for a period of 3-4 working days. Limited social activities may be planned as well. The final Scientific Programme should be approved by IUPAB Executive Committee, and it should be submitted at least 6 months in advance of the dates proposed for the Meeting.

The organizer(s) should provide a detailed budget in €. IUPAB's contribution will be to a maximum of 7000 € for students from countries where biophysics is emerging or from developing countries, plus a maximum of 6000 € to underwrite general expenses.

Organizers of approved Meetings must provide IUPAB Secretary General with a flyer advertising the Meeting as soon as possible, to be displayed in our website and published in IUPAB News. This flyer should be sent to IUPAB Secretary General not later than 9 months before the fixed days for such a Meeting.

Deadlines

To organize a Focused Meeting in 2021 the application deadline will be April 30, 2019.

Report

A report (the form for which can be downloaded from the IUPAB website),

should be sent to the IUPAB Secretary General and to the Treasurer, not later than three months after the conclusion of the Focused Meeting. The report should include:

- 1) The detailed scientific program.
- 2) A list (including nationality and gender) of participants and lecturers.
- 3) The detailed budget.
- 4) A brief report of about 1000 words written by the organizers and accompanied by 2-3 pictures or illustrations, to be published by IUPAB News and to be posted in IUPAB website.

Applications

Applications should be sent to the IUPAB Secretary General.

The selection will be carried out by IUPAB Council (formed by Executive Committee members and Councilors).

Michèle Auger

Obituary



Michèle Auger

It is with great sadness that the Biophysical Society in Canada learned that our colleague and friend Michèle

Auger passed away on October 29th, 2018, at the age of 55.

Michèle Auger was born in Grand-Mère, Quebec and raised in Trois-Rivières. As a bright and dynamic teenager, Michèle enrolled first in biophysics at the Université du Québec à Trois-Rivières, only to later transfer to chemistry. After obtaining her B. Sc. in 1985, Michèle joined the group of Dr. Ian C.P. Smith at the University of Ottawa/National Research Council of Canada to pursue her Ph. D. studies in biophysics. It was in Dr. Smith's lab that she developed her great passion for the use of solid state nuclear

magnetic resonance (NMR) spectroscopy for the study of biological membranes. After graduating from the University of Ottawa in 1990, Michèle refined her skills in solid state NMR as a postdoctoral fellow in the group of Dr. Robert G. Griffin at the Massachusetts Institute of Technology. Michèle Auger joined the Department of Chemistry at Laval in July 1991 as an Assistant Professor and recipient of an NSERC Women's Faculty Award. She was promoted to Associated Professor in 1996, then Full Professor in 2000.

Right from the start, Michèle Auger established a research program at the

forefront of biophysics, exploiting solid-state NMR and other state-of-the-art techniques to study membrane interactions with proteins, peptides and drugs, as well as to study biopolymers such as spider silk. Her research projects were supported by substantial and continuous funding from several agencies. Her research achievements have received worldwide recognition, appearing in over 125 publications in peer-reviewed journals and presented on more than 500 occasions at various meetings around the world. For the quality and innovative character of her work, Michèle received several distinctions, including the Barringer Award from the Spectroscopy Society of Canada in 2002, the Clara-Benson Award from the Canadian Society for Chemistry in 2007, and was nominated Fellow of the Chemical Institute of Canada in 2010.

As an educator, Michèle Auger was outstanding. She developed and taught numerous courses and, as an exceptional professor, received only the highest ratings from students. Her excellence in teaching was recognised on numerous occasions with “Professeure Étoile” Teaching Awards from the Faculty of Sciences and Engineering at Laval. Michèle Auger was also a fantastic mentor. During her career, she trained over one hundred undergraduates, graduate students and postdoctoral scholars. Gifted with superb interpersonal skills, she was able to adapt to the individual needs of each of the trainees she supervised to ensure their success. She always cared greatly for her students.

Michèle was also very dedicated to making Université Laval a better place to study. She served as program

director in Chemistry, either at the undergraduate and graduate level, for over 12 years. Her impact at the undergraduate level was particularly significant, with the elaboration of four innovative B.Sc. specialisations, four international exchange programs and the creation of a year-long industrial internship. In 2012, her exceptional contributions as Program director were recognised by Université Laval with the “Prix d’excellence en enseignement - catégorie Direction de programme”. Michèle Auger was particularly proud of the Communication for Chemists course that she created from scratch. Anyone who knew Michèle knew how close she was to students and how much she cared about them. She was part of the University Suicide Prevention Committee and designated “Sentinelle” for the Department of Chemistry. Her door was always open to students. In 2006, she co-founded a unique initiative: “Les 24 heures de la chimie” designed to promote chemistry and strengthen the sense of community in the Department of Chemistry.

Michèle Auger's involvement in the larger scientific community is also remarkable. Over the years, she served on numerous grant selection committees, notably at the National Science and Engineering Research Council of Canada. She served for many years in the Chemistry Evaluation group, as member and as chair. Michèle Auger also dedicated countless hours of service to the Biophysical Society of Canada (BSC). Michèle sat on the executive of the BSC starting in 1994. She was treasurer from 1997 until 2014, and served as secretary from 2010 on. In the latter role, she was responsible for creating the BSC website, as well as

many upgrades. To recognize her outstanding contributions, the BSC created the [Michèle Auger Award for Exceptional Service](#) in 2016, with Michèle being the inaugural winner of this award. Michèle was integral to the tremendous growth of the BSC. Michèle served internationally on the Council of the International Union of Pure and Applied Biophysics from 2011 – 2017. She also organized various conferences and symposia, including the Meeting of the International Society for Magnetic Resonance (ISMAR) in Quebec City in 2017.

Finally, Michèle Auger was engaged in promoting chemistry and sciences to the general public. Her passion for outreach started in 2007 with the organisation of an exhibit on the Chemistry of odours at the Science Pavillon of ExpoQuebec. She established an interactive activity on perfume fabrication and a very popular lecture entitled “The Chemistry of Odours: From Skunks to Chanel”, which she continued to deliver until very recently. Without doubt, her most notable contribution to scientific outreach started in 2011 for the International Year of Chemistry, when she co-founded “Attraction Chimique”, a series of interactive activities to promote chemistry to school children and the general public. To date, “Attraction Chimique” has initiated chemistry to over 400 000 persons, mostly teenagers. She was particularly proud of her perfume making activity, extremely popular among kids, especially girls.

Brilliant, creative, dedicated to the scientific and academic communities, Michèle Auger embodied the perfect example of an accomplished university professor by all standards: professional,

ethical and in leadership. Michèle Auger was a woman of values and great empathy, involved, passionate for books, sports, music and science. But most of all, she was an inspiring person. Everyone that crossed paths with Michèle will remember her as a model to follow, an exceptional woman that

passed away too soon. She is remembered as a dedicated, generous, and inspirational woman who touched the lives of many through her friendship, teaching and kindness.

Michèle is survived by her spouse Jean Larose, her greatest pride and joy, her

daughter Frédérique, her mother, her sister and other family members. She will be sorely missed by many friends, former and present members of both the Department of Chemistry, Université Laval and the Biophysical Society of Canada, as well as by the broader Canadian scientific community.

The Year That Made Me: Frances Separovic, 1996*

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Frances Separovic is a global leader in the science of membrane polypeptides, which have applications as varied as the fight against Alzheimers disease and the search for new anti-bacterial agents that don't build resistance as current antibiotics tend to do. She is a professor of chemistry at the University of Melbourne, a former visiting professor at Harvard Medical School and a senior academic at Oxford University and a

host of other international universities and institutions.

Her educational journey began at Alma Public School, on the South Side of Broken Hill, where Frances arrived with her Croatian parents in 1950s Australia.

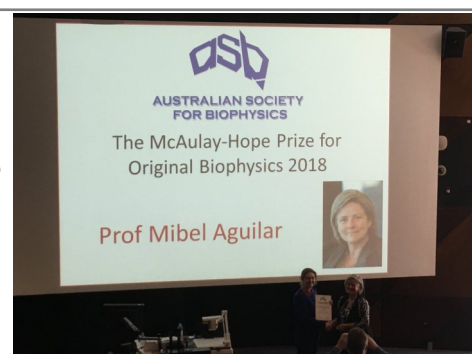


Frances Separovic - Professor of chemistry at the University of Melbourne

[Here is the link to the interview on Radio National](#)

NOTE

Congratulations to Professor Mibel Aguilar (Monash University) who, on December 8th, 2018, was awarded the McAuley-Hope prize by the Australian Society for Biophysics for developing new techniques to study model cell membranes [#WomenInSTEM](#) [#biophy](#)



Report on the 11th K. H. Kuo Summer School of Electron Microscopy & Crystallography & 2018 Kuo Symposium on 3D-EM of Macromolecules and Cells (funded by IUPAB)

August 24th-29th, 2018. Zhejiang University, Hangzhou, China



Workshop

The 2018 Kuo Symposium on 3D-EM of Macromolecules and Cells & The 11th K. H. Kuo Summer School of Electron Microscopy & Crystallography was held at Zhejiang University, Hangzhou, China, August 24-29, 2018, which houses a newly established state-of-the-art cryoEM facility for structural studies of macromolecules and cells.

The summer school covered practical sessions of single particle cryo-electron microscopy, electron tomography, and hand-on experience in image processing programs. Both basic principles of these techniques and their latest applications to biological systems was taught at the school.

The symposium invited 40 leading scientists to share their latest research, including Prof. Joachim Frank, who won

the 2017 Nobel Prize in Chemistry. There were almost 400 students/scientists attended the symposium. The major topic of this symposium focus on: Advances in cryoEM sample preparation and data acquisition, cryoEM image analysis and reconstruction, cryoET and in situ structural biology and Correlative and hybrid methods for cellular structural analysis.

The cryoEM meeting and workshop series is named after K.H. Kuo (1923 - 2006), a prominent Chinese scientist, who is among the pioneers discovered several types of quasicrystals in 1980s. Dr. Kuo was also an important educator and mentor who had fostered a generation of electron microscopists in China, Asia

and across the world. Since 2008, the Kuo summer school of electron microscopy has provided numerous opportunities for a new generation of



Travel award

scientists to learn the technique of cryoEM through close interactions with many leading scientists in the field during workshop and symposium.



Symposium

Report on Mechanobiology

(funded by IUPAB)

October 6th - 8th, 2018. Kotor, Montenegro

Organizer: International Biophysics School “Academician Radoslav K. Andjus” (NERKA)



The School was organized within the biannual series of Schools in Biophysics “Radoslav K. Andjus”, founded by the Biophysics Society of Serbia. The local organizers (also providing to venue) was the Institute for Marine Biology in Kotor, Montenegro.

After a selection process, 24 students were invited to the School. From those students 7 were from abroad (Austria, Egypt, France, Slovakia, Slovenia and Turkey) and 13 from Serbia. Other local

students were also invited for lectures. There were 12 lectures (each lasting up to 1.5h) by experts from France, Greece, Hungary, Italy, Japan, Serbia, Spain, UK and USA. Lectures were intertwined with time dedicated to discussions, however students were encouraged to interrupt the speakers at any time when they had questions. A discussion panel has also been organized on the Translational value of Mechanobiology (moderated by P.R. Andjus, B.

Martinac, K. Radotić and K. Naruse).

There were two get-together occasions in the evening to discuss and meet the speakers and a farewell dinner preceded by a boat excursion at the end.

At the closing of the School the students were given certificates of participation and took an anonymous evaluation survey in addition to a personalized questionnaire.

Report on Advanced School and Workshop: *Protein-protein and protein membrane interaction. Experimental and theoretical approaches*

Partially funded by IUPAB-Poslatam Program

October 22nd - 26th, 2018. Ocean Vista Azul Hotel, Varadero, Matanzas, Cuba

Organizer: Carlos Manuel Álvarez Valcárcel (Center for Protein Studies, University of Havana, Cuba)



Photo of all the participants.

The Advanced School and Workshop under the IUPAB-Poslatam Program: Protein-protein and protein-membrane interaction: experimental and theoretical approaches was held from October 22-26th, 2018, at the Ocean Vista Azul Hotel, Varadero, Cuba sponsored by IUPAB and the International Union of Biochemistry and Molecular Biology (IUBMB). A total of 74 participants gathered in this occasion, including 19 lecturers, 55 students, 12 of them from the IUPAB-Poslatam Program. This meeting was successfully developed as reflected by the opinions given by invited professors and students. Lectures were delivered

by professors of recognized prestige in their respective research fields. These conferences were focused on classical and advanced procedures for the study of protein: protein, protein: ligand and protein: membrane interactions, such as: Microcalorimetry, NMR, EPR, Time resolved X-ray crystallography, Circular Dichroism, Advanced

methodologies in fluorescence and fluorescence microscopy, Enzymatic procedures, Computational methodologies and the applications of these procedures for the characterization of protein:protein/ ligand and protein:membrane interactions. Additionally, one afternoon was devoted to a Workshop on Bioinformatics and tools for Circular Dichroism Spectra analysis. All the participants expressed their gratitude for this opportunity that was possible thanks to IUPAB kind support. Professors Manuel Prieto, President Elect of IUPAB, and Rubén Daniel Peluffo, member of IUPAB Council were among the participant lecturers and shared with us this rewarding experience.



Awardees in the poster contest during the closing ceremony.

Report on European Muscle Conference 2018

August 30th - September 3rd, 2018. Budapest, Hungary

Organizer: Hungarian Biophysical Society



The EMC is the annual gathering of the members of the European

Hungary. This year's conference was organized under the auspices of the Hungarian Biophysical Society, member of the IUPAB ([http://](http://emc.kmcongress.com)

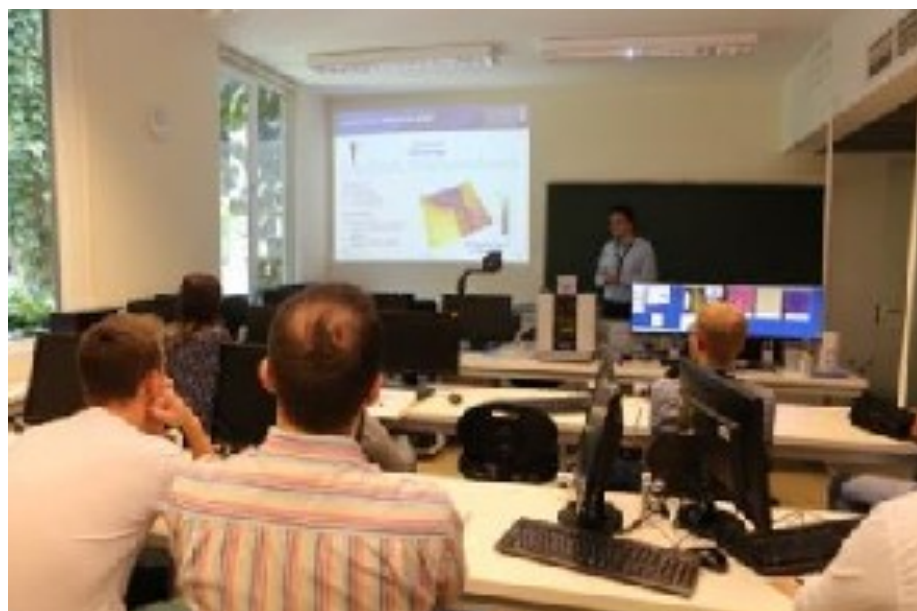
entire spectrum of muscle-related research. It was no different in this year's conference either, and twelve sessions covered the broad spectrum of muscle research; however, a new focus was given to the emerging field of motor protein pharmacology.

Appropriately, the plenary speaker of the conference was James Spudich from Stanford University, USA. Furthermore, there were four workshops, given by sponsoring instrument companies, which provided a direct, hands-on



Society for Muscle Research (<http://www.esmr.org>). Everyone who registered to this meeting is automatically a member of the society, which oversees and supports muscle research in Europe and beyond. This year's meeting was the 47th consecutive conference in a series that has been started by Marcus Schaub of Switzerland. The conference venue changes, from year to year, between European cities, and earlier the Society decided that this year's meeting will be organized in Budapest, capitol of

emc.kmcongress.com). The topics of the conference usually span the



opportunity to interested researchers to become acquainted with important methods employed in the field. There were important discoveries of muscle research - actin 75 and titin 40 years ago - to be remembered and celebrated, therefore the meeting, in a way, bridged the past with the future.



The venue was the Basic Medical Science Center of Semmelweis University, the oldest and most prestigious medical training university of Hungary which will celebrate its 250th anniversary in 2019. The Gala Dinner of the conference was held in the cupola of the Royal Castle of Buda, in the

Report on 20th European Bioenergetics Conference: From atomic resolution structures to cancer metabolism

August 25th - 30th, 2018. Budapest, Hungary

Organizer: Hungarian Biophysical Society

20th European Bioenergetics Conference: From atomic resolution structures to cancer metabolism

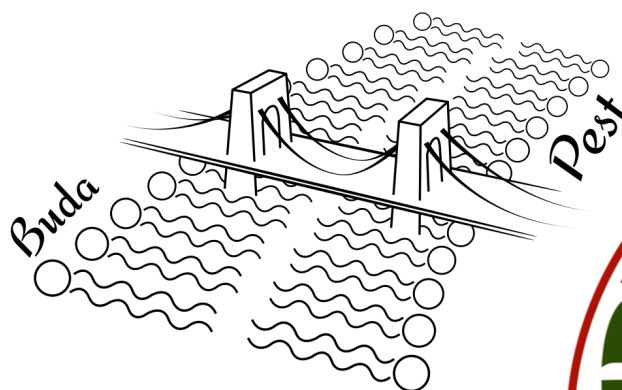
The 20th European Bioenergetics Conference took place in Budapest, Hungary, August 25-30, 2018.

Bioenergeticists from the whole world - not only from Europe - gather every other year to present the most exciting developments from the molecular and atomic resolution details of the machinery involved in the chemiosmotic conversion of light and chemical energy to the physiology and pathology connected to the energy metabolism of cells, with mitochondria occupying the central stage. This year's EBEC was organized and hosted by the medical school of Budapest, Semmelweis University – celebrating the 200th birthday of its denominator, Semmelweis Ignác in 2018 and the 250th anniversary of its foundation in 2019 – and co-organized by the Biological Research Centre of the Hungarian Academy of Sciences.

The aim of the conference was to promote research in, and interaction

between the diverse fields ranging from biophysics to medical sciences, and to encourage students and early career investigators to stay involved and build connections with colleagues and leading experts in bioenergetics.

Hebrew University, Jerusalem, who was awarded this prestigious prize by the Mitchell medal committee formed by previous awardees. With nine plenary and sixteen parallel sessions organized, there were over 100 lectures and a



EBEC2018 was attended by more than 400 delegates. The traditional Peter Mitchell Medal acceptance lecture was presented by Etana Padan from the

plenary round table session, the latter focusing on the hot topic of the mitochondrial permeability transition

pore. Plenty of time was allocated for viewing the almost 300 posters presented by the delegates. Oral sessions covered the structure and function of the relevant membrane protein complexes and supercomplexes made ever more exciting by the emergence of numerous cryo-electron microscopic studies, both photosynthetic and respiratory; microbial rhodopsin pumps and channels; transport and metabolism;

mitochondrial structure, physiology and evolution; the role of mitochondria in disease with special emphasis on cancer, also with a therapeutic perspective.

Invited papers from the lecturers at EBEC2018, 34 altogether, have been published in a special issue of BBA Bioenergetics. Abstracts of the conference contributions, both oral and poster, will appear in a special

conference volume of BBA Bioenergetics in the near future.

László Tretter
Organizer of EBEC2018
Department of Medical Biochemistry
Semmelweis University, Budapest.

László Zimányi
Co-organizer of EBEC2018
Institute of Biophysics
Biological Research Centre, Hungarian
Academy of Sciences, Szeged.

Report Preview on Biophysics and Structural Biology at Synchrotrons Funded by IUPAB

January 17th - 24th, 2019. Cape Town , South Africa

This workshop was held in Cape Town and it was funded by IUPAB. It was a joint activity of IUPAB Task Forces on

Education and Capacity Building and on Structural Biology.

The workshop was a great success and

a detailed report will be published in the next issue of IUPAB News. We show here a photo of IUPAB travel awardees



XXIII INTERNATIONAL SCHOOL OF PURE AND APPLIED BIOPHYSICS

(<http://tiny.cc/BiophysicSchool-2019>)



Venice (Italy) - Palazzo Franchetti

4-8 February 2019

Emerging Tools in Biomechanics: from tissues down to single molecules

Mechanical properties have a key role in biological processes. At the interface between biology, physics, and mechanics the school will survey recent advances and the emerging techniques able to probe mechanical properties of biological material. Combining lectures, application talks and hands-on training, the school will introduce the topic at different length scales, from molecular and sub-cellular approaches (Atomic Force Microscopy, Acoustic Force Spectroscopy), to single cells (Brillouin microspectroscopy, MEMS) also extending towards multicellular organization and tissues (nanoindentation, ultrasonic micro-elastography). Theoretical lessons will be complemented with in silico tutorials (image and data analysis) and experimental activities.

SCIENTIFIC COORDINATORS:

Silvia CAPONI CNR Perugia (Italy)
Mauro DALLA SERRA CNR Trento (Italy)
Massimo VASSALLI CNR Genoa (Italy)

INVITED TEACHERS:

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Claudio CANALE Genoa (Italy)
Marco CAPITANIO Florence (Italy)
Luca CESERACCIU Genoa (Italy)
Thomas DEHOX Lyon (France)
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DIRECTOR OF THE SCHOOL:

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CONTRIBUTIONS OF COMPANIES TO HANDS ON ACTIVITIES:

Nanomechanics <http://nanomechanicsinc.com>
Nanosurf <http://nanomechanicsinc.com>
Lumicks <https://lumicks.com>
Optics11 <http://optics11.com>
Olympus <http://olympus-lifescience.com>



Phase Separation in Biology and Disease

The New York Academy of Sciences

February 20th, 2019 | New York Academy of Sciences' symposium

Event Description: This one-day symposium will bring together scientists from academia and industry to dissect the latest advances in the field of biological phase separation and discuss the implications for human disease.

Event Link & Registration:
nyas.org/PhaseSeparation

Event Hashtag:
#PhaseSeparation

Twitter: twitter.com/NYASciences

Facebook: facebook.com/nyasciences

LinkedIn: <https://www.linkedin.com/company/new-york-academy-of-sciences/>



**FEB
20
2019**

Phase Separation in Biology and Disease

➔ Register at nyas.org/PhaseSeparation

This one day symposium will bring together scientists from academia and industry to dissect the latest advances in the field of biological phase separation and discuss the implications for human disease.

Location
The New York Academy of Sciences
7 World Trade Center
250 Greenwich Street
40th Floor
New York, NY 10007

Event Time
8:30 a.m. – 5:45 p.m.

Speakers

Clifford Brangwynne, PhD
Princeton University

Zhijian "James" Chen, PhD
University of Texas,
Southwestern

David Cowburn, PhD
Albert Einstein College of Medicine

Abby Dernburg, PhD
University of California,
Berkeley

Nicolas Fawzi, PhD
Brown University

Martin Jonikas, PhD
Princeton University

Tanja Mittag, PhD
St. Jude Children's Research Hospital

Rohit Pappu, PhD
Washington University,
St. Louis

Geraldine Seydoux, PhD
Johns Hopkins University School
of Medicine

Deadlines

Poster Abstract Deadline: **December 21, 2018**

Opportunities for F1000-sponsored Poster Prizes

Early Bird Registration Deadline: **January 11, 2019**

Presented By

The Chemical Biology Discussion Group at The New York Academy of Sciences

Phase Separation in Biology and Disease

➔ Register at nyas.org/PhaseSeparation

Organizers

Clifford Brangwynne, PhD
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St. Louis

Geraldine Seydoux, PhD
Johns Hopkins University School
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BIOPHYSICS CONGRESS
BIOPHYSICS FOR LIFE AND TECHNOLOGY



SAVE THE DATE!

Dear Colleagues,

On behalf of the EBSA-IUPAB 2019 Organizing Committee we are pleased to invite you to the upcoming Congress which will take place from 20th to 24th July 2019 in Madrid (Spain) at the **Palacio Municipal de Congresos**.

Plenary Invited Speakers



Stefan Hell
Nobel Prize 2014



Randy Schekman
Nobel Prize 2013



Eva Nogales



Julio M. Fernandez



Gregory A. Voth



Jennifer Lippincott-Schwartz



Madan Rao

SYMPOSIA

BIOMOLECULAR SIMULATION AND COMPUTATIONAL BIOPHYSICS
PROTEIN FOLDING AND ASSEMBLY
PROTEIN STRUCTURE AND FUNCTION
MEMBRANE STRUCTURE AND DYNAMICS
MACROMOLECULAR COMPLEXES
MECHANISMS OF MEMBRANE PROTEINS
LIPID AND LIPIDOME BIOPHYSICS
DNA ARCHITECTURE AND GENE REGULATION (INCLUDING STOCHASTIC GENE EXPRESSION
GENE NETWORK DYNAMICS AND SIGNALING
MOLECULAR MOTORS
SINGLE MOLECULE BIOPHYSICS
NEW FRONTIERS IN BIOIMAGING
LIVE IMAGING AND OPTICAL MICROSCOPY
CELLULAR PROLIFERATION (INCLUDING CANCER AND BIOFILMS)
BIOPHYSICS OF THE IMMUNE RESPONSE
DATA SCIENCES AND BIOPHYSICS
BIOPHYSICS OF CYTOSKELETON
BIOLOGICAL SELF-ORGANIZATION AND MORPHOGENESIS
NONEQUILIBRIUM PHYSICS IN BIOLOGY
NEW AND NOTABLE
EMERGING BREAKTHROUGH MOLECULAR-SCALE BIOPHYSICS METHODOLOGIES

Please visit www.ebsa-iupap2019.org for information about the congress, including the preliminary scientific program and list of speakers.

VI National Congress on Biophysics

The National Board of Biophysics of Russian Federation

October 7th - 12th, 2019 | Sochi, Russia



It is our pleasure to inform you about the VI National Congress on Biophysics to be held in Russian Federation. We expect about 1000 participants including 400-500 young scientists and students from Russia and other countries. We invite leading scientists from abroad to take part in the Congress with plenary lectures covering modern problems of biophysics.

The National board of Biophysics of Russian Federation organizes VI Congress on Biophysics in Sochi from 7th to 12th of October 2019. The main topics of the Congress are:

- **Molecular biophysics.** Structure and dynamics of biopolymers.
- **Cell biophysics.** Membrane transport processes. Bioelectrogenesis.
- **Mechanisms of energy transduction.** Bioenergetics. Molecular motors.

- **Biophysics of complex systems.** System and computational biology. Mathematical modelling. Bioinformatics.
- **Biophotonics.** Photobiology. Photosynthesis. Bioluminescence. Photoreception. Optogenetics.
- **The effect of physical and chemical factors on biological systems.** Ecological Biophysics.
- **Medical Biophysics.**

- **Biological mobility.** Biomechanics.
- **Neurobiophysics.**
- **Biophysical education.**

Any details can be found at the site of the Congress <http://conf-2019.biophys.ru>

The Head of the National Board of Russian Biophysicists

Andrei B. Rubin



РОССИЙСКАЯ АКАДЕМИЯ НАУК

IUPAB News Number 70, February, 2019

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The Executive Committee and the Council are depicted at the end of the General Assembly in Edinburgh, 18th July, 2017



IUPAB News Number 70, February, 2019

Activities of the INTERNATIONAL UNION for PURE and APPLIED BIOPHYSICS

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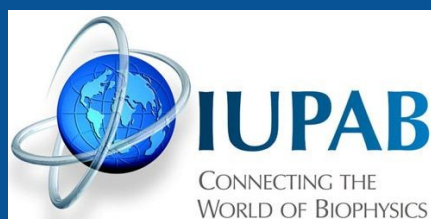
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The International Union for Pure and Applied Biophysics (IUPAB) was formed in Stockholm in 1961 as the International Organisation for Pure and Applied Biophysics. It was established as the International Union in 1966, when it became a member of the ICSU (International Council for Science) family. Affiliated to it are the national adhering bodies of 61 countries. Its function is to support research and teaching in biophysics. Its principal regular activity is the triennial International Congresses and General Assemblies.



Important Announ- cement Sponsorship Policy of IUPAB

As from now on there will be a change in the sponsorship policy with respect to that posted in:

<http://iupab.org/about/sponsorship/>

So that point 8, will read:

Applications for financial support
of Conferences, Schools and other

should be returned to the Secretary General at least before June 30th of the year prior to the event if it is scheduled for the first semester of the following year or before the 31st of December if it will take place during the second semester.

If organizers of meetings are seeking only the approval of IUPAB, including the use of the IUPAB logo, but not requesting financial support, applications may be submitted to the Secretary General at any time and will be considered by the Executive Committee by correspondence.

Note from the Editor:

IUPAB News will be happy to reproduce articles previously published by bulletins or other publications of any of our Adhering Bodies. We will be also happy to consider articles written by biophysicists on scientific or other subjects of broad interest for the biophysical community. You may contact the Secretary General with respect to this matter.

IUPAB is not responsible for the opinions expressed in the articles here included, nor necessarily share these opinions.

The Editor of IUPAB News is the IUPAB Secretary General Juan Carmelo Gómez-Fernández. This publication is produced and published at the University of Murcia, Departamento de Bioquímica y Biología Molecular A, Campus de Espinardo, Murcia, Spain.

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